



INVENTORSHIP DECLARATION BY JOINT INVENTORS

I HEREBY DECLARE THAT:

My residence, mailing address, and citizenship are stated next to my name in PART A hereof.

I believe I am the original, first, and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Membrane-Based Assays

the specification of which was filed on 09/11/2003 and assigned serial number 10/661,790.

I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim priority benefits under Title 35, United States Code §119 of any foreign application(s) for patent or inventor's certificate listed in PART B hereof and have also identified in PART B on hereof any foreign application for patent or inventor's certificate having a filing date before that of the application of which priority is claimed.

I hereby claim the benefit under Title 35, United States Code §119(e) and §120, of any United States application(s) listed in PART C hereof and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations §1.56 which occurred between the filing date of the prior application and any national or PCT international filing date of this application.

I hereby declare that all statements made herein of my knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Please direct all telephone calls to Jacqueline F. Mahoney at (650) 838-4410. Address all correspondence to:

**Perkins Coie LLP
P.O. Box 2168
Menlo Park, CA 94026
Customer No. 22918**

Attorney Docket No. 54795-8002.US00

INVENTORSHIP DECLARATION BY JOINT INVENTORS**PART A: INVENTOR INFORMATION AND SIGNATURE**Full name of **FIRST** inventor: Victoria YamazakiCitizenship: USMailing Address: 77 Dow Place, Apt. 907San Francisco, CA 94107

Residence (if different):

Inventor's Signature: *Victoria Yamazaki* Date: January 23, 2006Full name of **SECOND** inventor: Robert J. SchaferCitizenship: USMailing Address: 820 San Ramon WaySacramento, CA 95864

Residence (if different):

Inventor's Signature: _____ Date: _____

Full name of **THIRD** inventor: Morrison UlmanCitizenship: USMailing Address: 2295 Latham St., Apt. 8Mountain View, CA 94040-1600

Residence (if different):

Inventor's Signature: _____ Date: _____

Full name of **FOURTH** inventor: John T. GrovesCitizenship: USMailing Address: 221 StonewallBerkeley, CA 94705

Residence (if different):

Inventor's Signature: _____ Date: _____

PART B: CLAIM TO PRIORITY OF FOREIGN APPLICATION(S) UNDER 35 U.S.C. § 119(a-d)

Country

App. No.

Filing Date

PART C: CLAIM TO PRIORITY OF U.S. PROVISIONAL AND NONPROVISIONAL APPLICATION(S) UNDER 35 U.S.C. § 119(e) AND § 120Serial No.Filing DateStatus

60/410,173

09/11/2002

Abandoned

Attorney Docket No. 54795-8002.US00

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Residence (if different):

Inventor's Signature: _____ Date: _____

Full name of **SECOND** inventor: Robert J. SchaferCitizenship: USMailing Address: 820 San Ramon WaySacramento, CA 95864

Residence (if different):

Inventor's Signature:  _____Date: 1/20/2006Full name of **THIRD** inventor: Morrison UlmanCitizenship: USMailing Address: 2295 Latham St., Apt. 8Mountain View, CA 94040-1600

Residence (if different):

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Abandoned

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PART A: INVENTOR INFORMATION AND SIGNATURE

Full name of **FIRST** inventor: Victoria Yamazaki

Citizenship: US Mailing Address: 77 Dow Place, Apt. 907
San Francisco, CA 94107

Residence (if different):

Inventor's Signature: _____ Date: _____

Full name of **SECOND** inventor: Robert J. Schafer

Citizenship: US Mailing Address: 820 San Ramon Way
Sacramento, CA 95864

Residence (if different):

Inventor's Signature: _____ Date: _____

Full name of **THIRD** inventor: Morrison Ulman

Citizenship: US Mailing Address: 2295 Latham St., Apt. 8
Mountain View, CA 94040-1600

Residence (if different):

Inventor's Signature: Morrison Ulman Date: 12/28/2005

Full name of **FOURTH** inventor: John T. Groves

Citizenship: US Mailing Address: 221 Stonewall
Berkeley, CA 94705

Residence (if different):

Inventor's Signature: _____ Date: _____

PART B: CLAIM TO PRIORITY OF FOREIGN APPLICATION(S) UNDER 35 U.S.C. § 119(a-d)

Country	App. No.	Filing Date
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PART C: CLAIM TO PRIORITY OF U.S. PROVISIONAL AND NONPROVISIONAL APPLICATION(S) UNDER 35 U.S.C. § 119(e) AND § 120

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>
60/410,173	09/11/2002	Abandoned

INVENTORSHIP DECLARATION BY JOINT INVENTORS

PART A: INVENTOR INFORMATION AND SIGNATURE

Full name of **FIRST** inventor: Victoria Yamazaki

Citizenship: US Mailing Address: 77 Dow Place, Apt. 907
San Francisco, CA 94107

Residence (if different):

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Citizenship: US Mailing Address: 2295 Latham St., Apt. 8
Mountain View, CA 94040-1600

Residence (if different):

Inventor's Signature: _____ Date: _____

Full name of **FOURTH** inventor: John T. Groves

Citizenship: US Mailing Address: ~~221 Stonewall~~ 1400 Queens Rd
~~Berkeley, CA 94705~~ Berkeley CA
94708 *BT*

Residence (if different):

Inventor's Signature:  Date: 1/19/06

PART B: CLAIM TO PRIORITY OF FOREIGN APPLICATION(S) UNDER 35 U.S.C. § 119(a-d)

Country	App. No.	Filing Date
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PART C: CLAIM TO PRIORITY OF U.S. PROVISIONAL AND NONPROVISIONAL APPLICATION(S) UNDER 35 U.S.C. § 119(e) AND § 120

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>
60/410,173	09/11/2002	Abandoned



Attorney Docket No. 54795-8002:US00

PATENT**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF:

YAMAZAKI, *et al.*

APPLICATION No.: 10/661,790

FILED: September 11, 2003

FOR: **MEMBRANE BASED ASSAYS**

EXAMINER: FOSTER, CHRISTINE E.

ART UNIT: 1641

CONF. No: 9161

Declaration Under 37 C.F.R. §1.132

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

I, Victoria Yamazaki, declare and state that

1. I was employed by Synamem Corporation and Proteomic Systems, Inc. from 2001–2004. During this time I held the positions of Senior Scientist, Director of Membrane Biology, VP, Biological R&D, and Secretary of the Corporation.
2. I received my Ph.D. from Stanford University in 1999 in Biophysics.
3. I have been active in the field of biochemistry and biophysics for over 18 years. Two key areas of my technical expertise are biophysics and biochemistry.
4. I am a named co-inventor of the subject matter embodied claims 1-41 of the above-referenced application.
5. On December 16, 2004, a manuscript was submitted for publication in the *Journal of the American Chemical Society* based on experiments and studies which I performed, directed and/or analyzed concerning the effects of ligand binding on fluidity of a supported membrane microarray (copy of the published paper enclosed herewith).

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6. As described in the article, a lipid microarray was prepared using the lipids DMPC (98.75%) and NBD-PG (1 mol %). The lipid array also included 0.25 mol % of a GPI-linked form of InterCellular Cellular Adhesion Molecule 1 (ICAM-1).

7. The lipid microarray was exposed to increasing concentrations of a phycoerythrin-conjugated anti-ICAM-1 antibody having specific binding affinity for ICAM-1. Before and after binding, the fluidity of the lipid microarray (referred to in the article as "membrane mobility") was measured by fluorescence recovery after photobleaching (FRAP).

8. As seen in the data presented in the article, a decrease in lipid fluidity was found upon binding with the anti-ICAM1 antibody (see Fig. 2).

I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of title 18 of the United States Codes and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date: January 23, 2006

Signed: 
Victoria Yamazaki

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